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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/807,190	04/10/2001	Katsuya Matsuda	MATSUDA 13	4190

1444 7590 02/27/2002
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EXAMINER

PULLIAM, AMY E

ART UNIT	PAPER NUMBER
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1615

DATE MAILED: 02/27/2002

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Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/807,190

Applicant(s)

MATSUDA ET AL.

Examiner

Amy E Pulliam

Art Unit

1615

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 29 August 2001.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-28 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-28 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____
- 4) ☐ Interview Summary (PTO-413) Paper No(s) _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other:

DETAILED ACTION

Receipt is acknowledged of the Amendment B, received August 29, 2001.

Claim 10 is objected to because of the following informalities: The claim recites table instead of tablet. Appropriate correction is required.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-3, 5-13, and 15-28 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Claims 1 has a limitation which is written inside parentheses, which renders the claim indefinite because it is unclear whether the limitation(s) within the parentheses are part of the claimed invention. See MPEP § 2173.05(d).

Claim 10 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Applicant has defined the polymer of claim 10 by a previously issued US Patent. Therefore, the examiner can not determine the breadth and scope of the claim. The claims within a patent should be able to stand alone, and not require the assistance of an additional patent. Appropriate correction is required.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-3 are rejected under 35 U.S.C. 102(b) as being anticipated by any of US Patents 5,496,545 or 6,083,495 or 5,667,775 to Holmes-Farley *et al.* (Holmes) (As the three specifications are almost identical, the examiner will rely on the column and line numbers of the '545 patent to simplify the following rejections). Holmes disclose phosphate binding polymers used to remove phosphate from the gastrointestinal tract. Holmes also teach that the polymers of their invention may be cross-linked with a cross-linking agent, such as epichlorohydrin (c 2, l 2-5). Furthermore, as admitted by applicant in claim 10, Holmes discloses the same poly(allylamine/epichlorohydrin) polymer claimed by applicant (c 8, l 15). Additionally, Holmes teaches that the composition of their invention can be administered in any well known, oral, pharmaceutical method, including tablet form (c 17, l 38).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and

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the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-28 are rejected under 35 U.S.C. 103(a) as being unpatentable over any of the Holmes patents discussed above, and in view of the following comments.

Holmes is discussed above as teaching a pharmaceutical tablet comprising applicant's claimed polymer. Holmes does not teach the specific gravity ranges claimed by applicant. However, applicant himself states, in instant claim 10, that the polymer used in the instantly claimed formulation is the one described in the Holmes patent.

Therefore, applicant himself has acknowledged that the two polymers are the same.

Additionally, Holmes does not specifically teach a particles size for the polymer, once it is incorporated into the tablet formulation. However, Holmes does teach a method of producing granulates of the polymer (c 8, l 30). Additionally, in the '495 patent, which claims the method of making the pharmaceutical composition, column 20, claim 8 clearly teaches the formation of particles. It is the position of the examiner that it is within the skill of the art to manipulate a specific particle size as part of the process of normal optimization. Absent a showing of criticality, it is the position of the examiner that this limitation is obvious to one of ordinary skill in the art.

Holmes also teaches that in making the pharmaceutical composition, the polymeric phosphate binder may be mixed with a carrier, diluted by a carrier, or enclosed with a carrier (c 17, l 28-35 of the '545 patent). Holmes does not go into specifics regarding what the carrier can be. However, it is the position of the examiner that this general teaching would lead one of ordinary skill in the art to combine any well known carrier with the phosphate binding polymer, in order to make a successful

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pharmaceutical composition. Additionally, absent any evidence to the contrary, it is the position of the examiner that crystalline cellulose and hydroxypropyl cellulose are both very well known tablet excipients, and would be obvious to use in a pharmaceutical tablet composition. Furthermore, it is also the position of the examiner that the specific excipients used is not the critical aspect of applicant's invention.

Claim 11 is a product by process claim. According to the MPEP section 2113, "even though product by process claims are limited by and defined by the process, determination of patentability is based on the product itself. The patentability of a product does not depend on its method of production, If the product in the product-by-process claim is the same or obvious from a product of the prior art, the claim is unpatentable even though the prior art was made by a different process." *In re Thorpe*, 777 F.2d 695, 698, 227 USPQ 964, 966 (Fed.Cir. 1985).

Lastly, the Holmes also renders applicant's process of making claims obvious. Us Patent 6,083,495 specifically claims the method of making the pharmaceutical composition. This method entails cross-linking the polymer, followed by mixing the polymer with a carrier. As discussed above, it is the position of the examiner that the specific carrier chosen is a limitation which would be obvious to one of ordinary skill in the art.

One of ordinary skill in the art would have been motivated to create a pharmaceutical tablet, comprising the specific phosphate binding polymer and a well known tablet excipient, based on the teachings of Holmes. The expected result would be a successful tablet formulation which is successful in removing phosphate from the

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gastrointestinal tract. Therefore, this invention as a whole would have been *prima facie* obvious to one of ordinary skill in the art at the time the invention was made.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Amy E Pulliam whose telephone number is (703) 308-4710. The examiner can normally be reached on Mon-Thurs 7:30-5:00, alternate Fri 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thurman K Page can be reached on (703) 308-2927. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 305-3592 for regular communications and (703) 305-3592 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-1234.

aep
November 30, 2001

G S Kishore
Gollamudi S. Kishore, PhD
Primary Examiner
Group 1600
For TFC Page